



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140842

Mode: Highway

Status: Submitted

US-74, NC-87 (Maco Road)

From/Cross Street: Intersection of US 74/76 & NC 87 (Maco Road)

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Statewide Mobility

Length: 2

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$9,610,000

Description:

Upgrade at grade intersection to interchange

Division(s): Division 3

County(s): BRUNSWICK

MPOS(s)/RPO(s): Cape Fear RPO

Project Location



Statewide Mobility Total Score: 19.53

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 26.09 Safety (10%) 66.70 Economic Competitiveness (10%) 0.83 Multimodal + [Freight & Military] (20%) 23.20 [Travel Time] Benefit/Cost (30%) 1.04	N/A	N/A
Totals: Weight: 100% Weighted Score: 19.53		

Regional Impact Total Score: 32.88

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 66.70 Multimodal + [Freight & Military] (25%) 23.20 [Travel Time] Benefit/Cost (20%) 1.04	Percent: 15% Points: 0	Percent: 15% Points: 68
Totals: Weight: 70% Weighted Score: 22.68		

Division Needs Total Score: 20.88

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 26.09 Safety (20%) 66.70 Multimodal + [Freight & Military] (10%) 23.20	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 20.88		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	2
Facility Type:	Multi-Lane Highway
Access Control:	Limited
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	27545.19
Capacity:	109658.78
Volume/Capacity Ratio:	0.25
% Autos:	88%
% Trucks:	12%
Truck Volume:	3383.39
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	66.7
Severity Index:	66.7
County Tier Designation:	3
Non-Interstate STRAHNET Route?	Yes
Average Commuting Time:	23
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	98
Actual Congested Speed:	53.71
Travel Time Index:	1.02

Project Benefits

Project Cross-Section:	
Speed Limit:	55
Length (miles):	2
Facility Type:	Freeway
Access Control:	Full
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	431000
Travel Time Savings for 30 Years (Autos):	378060.01
Travel Time Savings for 30 Years (Trucks):	52939.99
Long-Term Employment:	6.99
% Change in Economy:	9.57E-06
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 3

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 3	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Cape Fear RPO	100%	68	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		68	0

Project Cost and Source

Construction Cost:	\$7,750,000	Cost Estimation Tool
Right-of-Way Cost:	\$1,860,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$9,610,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$9,610,000	